

SS8050

2W Output Amplifier of Portable Radios in Class B Push-pull Operation.

- Complimentary to SS8550
- Collector Current: I_C=1.5A
- Collector Power Dissipation: P_C=2W (T_C=25°C)



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	1.5	Α
P _C	Collector Power Dissipation	1	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-65 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =2mA, I _B =0	25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	6			V
I _{CBO}	Collector Cut-off Current	V_{CB} =35V, I_E =0			100	nA
I _{EBO}	Emitter Cut-off Current	V_{EB} =6V, I_{C} =0			100	nA
h _{FE1} h _{FE2} h _{FE3}	DC Current Gain	V_{CE} =1V, I_{C} =5mA V_{CE} =1V, I_{C} =100mA V_{CE} =1V, I_{C} =800mA	45 85 40		300	
V _{CE (sat)}	Collector-Emitter Saturation Voltage	I _C =800mA, I _B =80mA			0.5	V
V _{BE (sat)}	Base-Emitter Saturation Voltage	I _C =800mA, I _B =80mA			1.2	V
V _{BE (on)}	Base-Emitter On Voltage	V _{CE} =1V, I _C =10mA			1	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		9.0		pF
f _T	Current Gain Bandwidth Product	V _{CE} =10V, I _C =50mA	100			MHz

h_{FE} Classification

Classification	В	С	D	
h _{FE2}	85 ~ 160	120 ~ 200	160 ~ 300	

Typical Characteristics

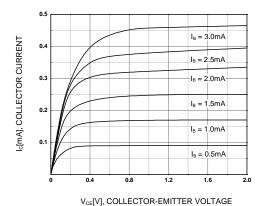


Figure 1. Static Characteristic

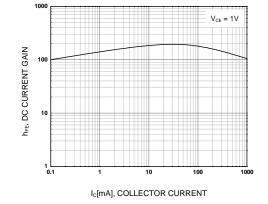


Figure 2. DC current Gain

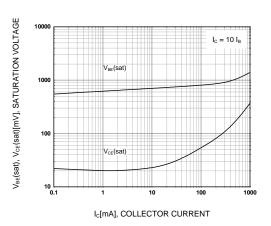


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

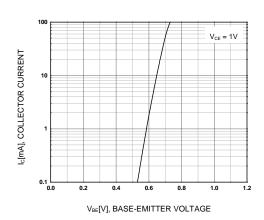


Figure 4. Base-Emitter On Voltage

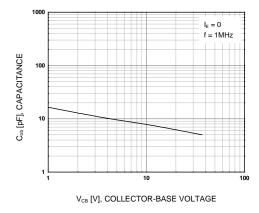


Figure 5. Collector Output Capacitance

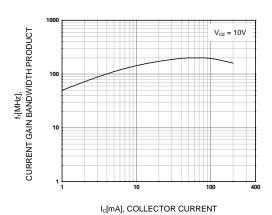
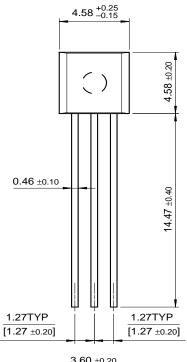


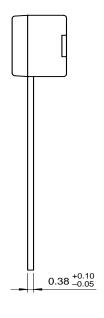
Figure 6. Current Gain Bandwidth Product

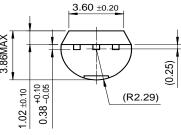
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Package Dimensions

TO-92







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